• COLORADO RIVER •

AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

VOLUME XX OCTOBER, 1953 No. 10

Excavation On Cajalco Tunnel Now Completed

Completion of excavation on the Cajalco tunnel, a major unit of the $52,000,000 construction program now under way by the District to provide more Colorado River water to Southern California cities, was announced October 14 by General Manager and Chief Engineer Robert B. Diemer.

The mile-and-a-half long tunnel that will provide a new outlet for water stored in Lake Mathews, near Riverside, was "holed through" 14 months after award of the contract, Mr. Diemer said. The tunnel is 10 feet in diameter and will have a capacity of 500,000,000 gallons of water daily.

Cajalco tunnel is a part of the lower feeder line, now under construction, to bring urgently needed additional Colorado River water, first, to portions of Orange county and, eventually, to the southerly part of Los Angeles county.

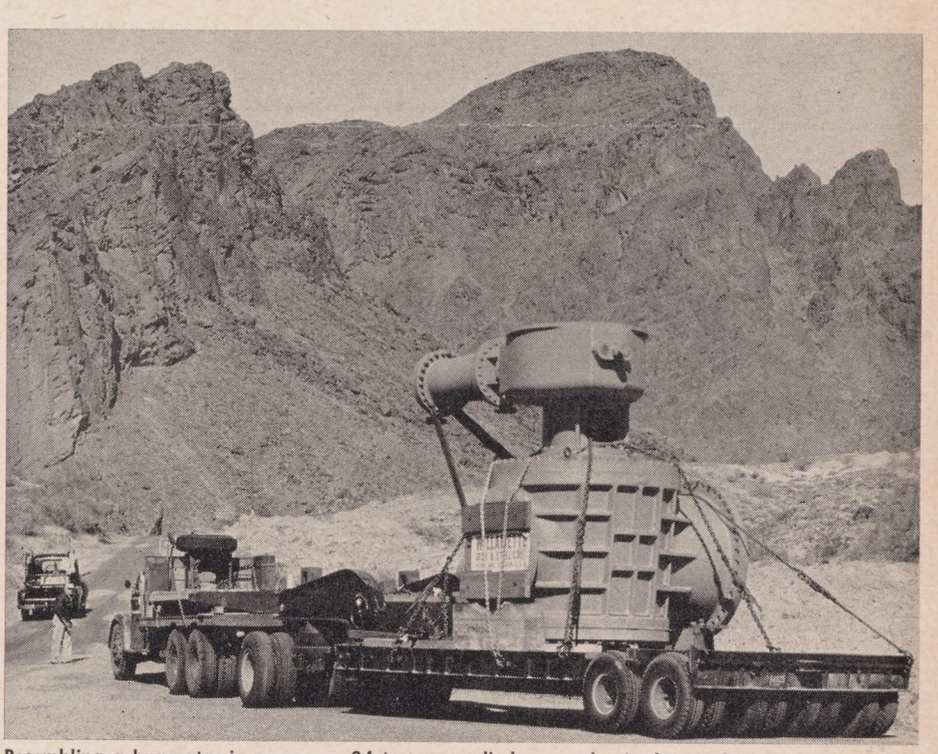
Eighteen miles in length, the feeder line will extend from Lake Mathews to a point in Santa Ana Canyon 10 miles east of Fullerton. Its route passes through Corona.

The Upper Feeder of the distribution system has been in operation since 1941. This line leading out of Lake Mathews, extends northerly to the vicinity of the Fontana area, thence westerly to serve areas in Los Angeles and Orange counties. The new feeder line has the same initial capacity as the Upper line that has been in operation since 1941.

"Through the current enlargement program and other projects to be built in the future, as required, the aqueduct can furnish enough Colorado River water for four to five million more residents of Southern California," Board Chairman Joseph Jensen said. "The District now includes 50 incorporated cities with a population of more than four million."

Addition of the Cajalco tunnel brings

(Continued on Page Three)



Resembling a huge atomic weapon a 34 ton pump discharge valve is shown above being trucked to the District's Intake Pumping plant on the Colorado River. As part of the District's current expansion program, two new pumps are to be installed in each of the five pumping plants to greatly increase the flow of Colorado River water into the homes and industries of Southern California.

Huge Discharge Valves Reach Colorado River For Installation In District's Intake Plant

Weighing 68,000 pounds each, two huge discharge valves were delivered this month to the District's Intake Pumping Plant on the Colorado River. The valves are integral parts of the two new pumps that are scheduled to be installed in the pumping plant in order to boost additional supplies of Colorado River water into the aqueduct for delivery to Metropolitan Water District cities.

Made of steel castings, the valves, which resemble giant cannons, are 14 feet in height and approximately 10 feet in circumference. They were shipped by railway car to Earp, California, where they were lifted by two 20-ton cranes onto a low-bed trailer. From Earp they were trucked the remaining 17 miles to the Intake plant.

In addition to the Intake plant, the District's Gene, Iron Mountain, Eagle Mountain and Hayfield plants will each have two additional pumps installed as a part of the present aqueduct enlargement program. Each pump will have the rated capacity of 90,000 gallons of water per minute and will increase the capacity of each pumping plant from its present total capacity of 270,000 gallons per minute to

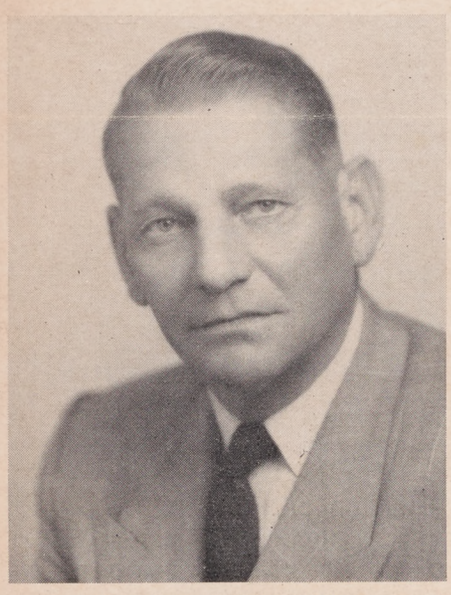
(Continued on Page Three)

• COLORADO RIVER •
AQUEDUCT NEWS
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

306 WEST THIRD STREET
LOS ANGELES, CALIFORNIA

Published monthly in the interest of Field and Office Workers on the Colorado River Aqueduct, and for the information of all other citizens of the Metropolitan Water District.

Vol. XX October, 1953 No. 10



DIRECTOR WALTER H. LONG

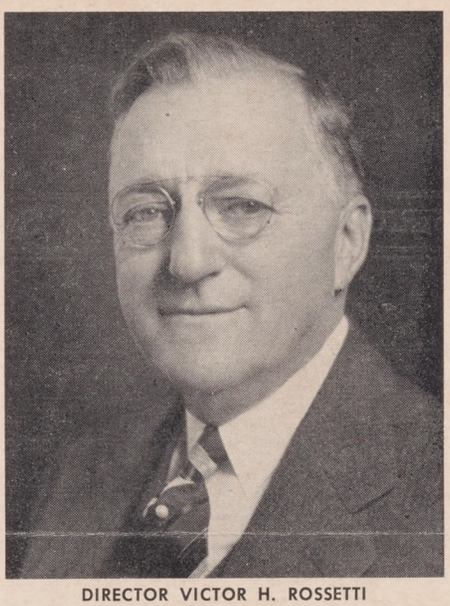
Appoint Walter H. Long New District Director

At a meeting October 13, Walter H. Long took his oath of office as the Director representing the city of Burbank on the District's Board.

Director Long succeeds James L. Norwood, Sr., who served as Burbank's representative on the Board from March 1933 to May 1943 and, again, from May 1947 to October of this year.

Director Long is President of the Surety Bond Building and Loan Association. He has been connected with the firm since its founding in 1928.

He has been active in Burbank civic affairs for many years. For eleven years he served on the Burbank Park and Recreation Commission and for seven years years he was a Director of the Burbank Community Chest. He was also a Director of the Burbank Chamber of Commerce from 1937 through 1944 and President of the Chamber in 1941.



DIRECTOR VICTOR H. ROSSETTI

Director Rossetti Gets Twenty-Year Service Pin

At the District's regular Board meeting October 13, Director Victor H. Rossetti was presented with his twenty year service pin by Chairman Joseph Jensen.

In 1947, Director Rossetti was Chairman of the Board. He has been constantly active in the counsels of the District's governing body. He is now serving on the Organization and Personnel Committee and on the Financial and Insurance Committee.

Before coming on the Board, Mr. Rossetti served as Chairman of a Citizens Committee advocating the $220,000,000 aqueduct bond issue voted by the people in 1931.

Last month Director Rossetti celebrated sixty years of service in the banking profession. He began his banking career with Wells Fargo & Co. in San Francisco. He left in 1911 to be Cashier for the Farmers and Merchants National Bank. He was elected President of the Bank in 1931 and served in that capacity for twenty-two years. On September 8 he was named Chairman of the Board of Directors and Chief Executive Officer of the Bank.

In recognition of Director Rossetti's six decades in banking the District's Board of Directors adopted a resolution which states in part:

"We, his associates on the Board of Directors of The Metropolitan Water District of Southern California, as fellow directors and also, individually, as friends convey to him felicitations and congratulations. Our best wishes go forward with him in his new position and responsibilities."

For the RECORD

(The following items are noted from the report of General Manager and Chief Engineer Robert B. Diemer, filed October, 1953, covering District operations for September, 1953.)

Colorado River — During September the water level in Lake Mead dropped 5.71 feet to elevation 1157.67 feet, 32.33 feet lower than on September 30, 1952. Usable storage on September 30 was 18,384,000 acre-feet, a decrease of 688,000 acre-feet for the month. At Hoover Dam the discharge averaged 16,200 cubic feet per second compared with 15,710 during August. At Lake Havasu the water level varied between elevations 448.9 and 447.9 feet. Average discharge was 13,900 cfs compared with 17,360 during August.

Power and Pumping System — Pumping was continuous with a three-pump output of 600 cfs until September 30, when pumping at Hayfield was reduced to a two-pump flow. Peak delivery to the Edison Company system was 110,000 kw. There was no delivery to the Parker system.

Distribution System — San Jacinto reservoir contained 1171 acre-feet of water at month's end. Lake Mathews contained 96,278 acre-feet, an increase for the month of 8,083 acre-feet. Morris reservoir storage amounted to 22,822 acre-feet. At the Weymouth Softening and Filtration Plant Colorado River water was softened from a natural hardness of 297 to 125 ppm. Daily rate of flow varied from a minimum of 155 to a maximum of 228 cfs.

Construction — On the Garvey-Ascot cross feeder 2,496 feet of 60-inch pipe was installed during the month for a total to date of 29,495 feet. All pipe on this contract has now been laid. At Garvey reservoir 292,000 cubic yards of earth was moved, for a total to date of 2,453,000 cubic yards, 72 per cent of the required quantity. On the Garvey Reservoir to Southern Ave. line, 3,271 feet of pipe was laid, for a total of 3,366 feet, 29 per cent of the total required. On the Southern Avenue to Victoria Street line 823 feet has been laid to date; Victoria Street-223rd Street feeder, 21,139 feet has been laid to date, leaving only 120 feet of pipe to be installed. On pumping plant expansion, fabrication of pumps, motors, discharge valves, butterfly valves, headgates and other miscellaneous equipment is now about 47% completed.

Purchasing — Purchase orders and agreements issued totaled approximately $76,800.

With the "holing through" which took place on October 10, excavation of the Cajalco tunnel was completed. Above, Tom Cain (left), Division Foreman stationed at San Jacinto reservoir, and William F. McCleary, Superintendent of Aqueduct Maintenance, inspect completion of the first phase of the project. The tunnel is part of the lower feeder line now under construction which will bring additional supplies of Colorado River water to portions of Orange County and to the southerly part of Los Angeles County.

New Steps Taken In Supreme Court Suit Over Colorado River Water Rights

The legal battle in which California is protecting its Colorado River water rights in a Supreme Court suit that has been initiated by the State of Arizona has gone forward during the past few months.

Following California's action, in May of this year, in filing an Answer to the Arizona Complaint, which was placed before the Supreme Court late last year, the legal representatives of Arizona submitted their Reply to the points raised by California.

In September California submitted to the Court its Rejoinder to the Arizona Reply.

Late in September the Attorney General of Nevada filed a letter with the Clerk of the Supreme Court indicating that Nevada plans to enter the Colorado River lawsuit, and asked leave to be given until December 15 to file such an action with the Court.

Meantime, it was expected that the Attorney General of the United States would take action in the immediate future to intervene in behalf of the Federal Government.

The Colorado River suit was filed by the State of Arizona in support of its efforts to obtain Federal projects for the use of large additional quantities of Colorado River water within Arizona. One of the public agencies named by the Arizona Complaint is the Metropolitan Water District. The District is represented in the suit by General Counsel James H. Howard.

Cajalco Tunnel

(Continued from Page One)

the total length of tunnels on the main aqueduct and distribution system to 111 miles. The present aqueduct system, including the distributing facilities, totals 457 miles. It is the longest and largest domestic water supply system in the world.

Community Chest Drive In District Under Way

The time has come again for those of us who have our share of the good things in life to help those who are less fortunate.

Next month the Los Angeles Community Chest Drive for Funds gets under way and all District employees are urged to be as generous as possible in making their contributions.

In its appeal this year the Chest states: "Children's services, hospitals, clinics, institutions, foster homes simply cannot keep pace with the needs of this new City of Children coming along each year.

"Red Feather services are strained to the limit. They are not meeting demands made upon them by the community."

Eighty cents of every Chest dollar goes for services for children, but Red Feather agencies are striving desperately to keep pace with the needs and demands of the new City of Children added every year The Community Chest, representing 164 Red Feather agencies, alleviates suffering and brings hope to thousands of children each year. By giving generously this year every needy child will have a chance to receive proper care and attention.

Honorary Chairman of the District fund activity is General Manager and Chief Engineer Robert B. Diemer. Chairman is Miriam Taylor. Others representing their divisions are General Manager and Chief Engineer and Office Engineer Group, Agnes Dunning; Right of Way and Hydrographic, Ethel Lockhart; Accounting, Chester G. Olson; Purchasing, Lester D. Martin; Operation and Maintenance, Aqueduct Distribution and Garage, W. H. Eppinger; Construction Office Force, Owen Wilson; Construction Field Engineering and Inspection Force, H. J. Mills; Electrical Division, E. W. Rockwell; Pumping Plant Expansion Force, John E. Anderson; Pumping Plant System, E. A. Russell; Softening Plant, R. C. Davis; Miscellaneous Activities, Dorothy Goddard; Legal, Alan Patten; Executive Secretary, A. L. Gram; Controller, A. W. McKinlay; Treasurer, Hortense M. Helgesen.

Discharge Valves

(Continued from Page One)

450,000 gallons per minute.

Manufacture of the component parts of the District's pumping plant extension program is well under way and the units are expected to be completed during the first quarter of next year.

NEWS FROM FIELD AND OFFICE

Employees who this month made a three day inspection tour of the District's installations to learn how they help bring Colorado River water to Southern California are shown above at the entrance to the F. E. Weymouth Softening and Filtration plant. Standing (left to right), Barbara Glennon, Edith Mallery, Evelyn Lauricella, Frieda Bonelli, Fannie Mae Fink, Darleen Campbell, Agnes Dunning, Marian Crews, Ethel Lockhart, Doris Tonks, Grace Wyatt, Miriam Taylor, Mary Finnigan, Ruth Thiers, Lorraine Rudoff, Estelle McGee, Patricia Davis, Miriam Beamer, Ruby Barnhart, Catharine Wilson, Ralph Davis, in charge of the plant, Dorothy Goddard, Isabel Ross, Viola Crutcher, Melva Hebert, Blanche LaPalme, Marian Fletcher. (Kneeling) Bus driver, Gordon Smith, William Kierulff, William Kalla, George Fenley, Tony Lugo, John Davenport, Otto Wittman and Rufus Fee, Field Secretary, who conducted the tour.

To give District personnel from the Los Angeles office a firsthand knowledge of how Colorado River water is brought into Southern California 33 District employees this month made a three day inspection tour of aqueduct facilities. This group included 26 women employees and 7 men.

The inspection trip was authorized by the District's Board of Directors, which also approved the recommendation of the General Manager and Chief Engineer for a similar trip to be made later this year by other employees.

The party left Los Angeles by bus on the morning of October 30 and made their first stop at the F. E. Weymouth Memorial Softening and Filtration plant near La Verne. They then proceeded to Lake Mathews, the District's largest reservoir where they were met by W. F. McCleary, Superintendent of Aqueduct Maintenance.

After lunch the party left for Gene Village on the Colorado River where they were quartered in the Guest Lodge.

On the following day the party was taken for a boat ride on Copper Basin Reservoir and also on the same day inspected Gene Village Intake Pumping Plant and Parker Dam Power Plant.

Mrs. E. A. Russell, wife of the Superintendent of Gene Village Pumping Plant, gave a tea for the ladies in the party in the afternoon.

On the third day the tour left for the return trip to Los Angeles. On the way the party stopped at Iron Mountain Pumping Plant where they were greeted by Lawrence L. Green, Superintendent of Aqueduct Maintenance, and E. M. Dussaman, Station Chief. They next visited Eagle Mountain Pumping Plant where they were met by Station Chief Walter Roys, who conducted them an a tour of the plant. The party's last stop was at Hayfield Pumping Plant, where they were cordially greeted by Station Chief Ralph Adams.

All members of the party express deep appreciation to the Board of Directors for authorizing the trip, and to the field employees and their wives for their hospitality and friendliness, and for contributing so heartily in making the tour an educational and enjoyable experience.

FRED L. RICHARDS

Fred L. Richards, Mechanic, joined the increasing number of "Aqueductors" who have been employed by the District twenty years. He earned his service pin on October 18.